REMARKS

The present application relates to inbred maize line PH6ME. Claims 1-30 are pending in the present application. No new matter has been added by way of amendment. Applicants respectfully request consideration of the claims in view of the following remarks.

Request for Information under 37 C.F.R. § 1.105

The Examiner has made a Request for Information under 37 C.F.R. § 1.105. The Examiner states the requested information is "required to make a meaningful and complete search of the prior art". See Office Action, p. 2.

Applicants provides answer to each of the Examiner's interrogatories discussed infra.

The Examiner begins by asking firstly, what were the original parental maize lines used to produce maize inbred line PH6ME? Please supply information pertaining to the lineage of the original parental lines back to any publicly available varieties. PH24E and PHND1. Information pertaining to the lineage of the original parental lines is available within the PVP Application No. 200100255, attached as Appendix 1.

Secondly, what method and steps were used to produce maize inbred line PH6ME? Pedigree selection method produced by selfing for 7 generations.

Third, have any of said parental maize lines or progeny therefrom been disclosed or made publicly available?

- a. The parental maize line PH24E was previously disclosed or made publicly available in PVP Certificate No. 9600204 and U.S. Patent No. 5,689,034. The parental maize line PHND1 was previously disclosed or made publicly available in PVP Certificate No. 9600178 and U.S. Patent No. 5,723,722.
- b. No other progeny of the parental cross PH24E/PHND1 was previously disclosed or made publicly available by Applicant prior to the earliest priority date.

Fourth, were any other maize lines produced by said method using said original parental maize lines, and if so, have said produced maize lines been publicly available or sold? If so, under what designation/denomination and under what conditions were said other maize lines disclosed or made publicly available? No other maize line using the same F1 cross has been produced by said method using said original parental maize lines at or before the time of filing of the instant application.

In light of the above remarks, Applicants respectfully request reconsideration and compliance with the interrogatories under the Request for Information under 37 C.F.R. § 1.105.

Conclusion

In conclusion, Applicants submit in light of the above amendments and remarks, the claims as amended are in a condition for allowance, and reconsideration is respectfully requested. If it is felt that it would aid in prosecution, the Examiner is invited to contact the undersigned at the number indicated to discuss any outstanding issues.

No fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted.

Xula QI Qn v-d LILA A. T. AKRAD, Reg. No. 52,550

McKEE, VOORHEES & SEASE, P.L.C. 801 Grand Avenue, Suite 3200 Des Moines, Iowa 50309-2721

Phone No: (515) 288-3667 Fax No: (515) 288-1338 CUSTOMER NO: 27142

- LATA/bjh- Attorneys of Record



200100255

THE UNITED STATES OF A VIETZORA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

MINTERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CRICIPACATE QUE PRODUCÇION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALIZE REPRODUCTION OF TURBER REPORTANTED FAIRT, THE NUMBER AND PRESUMPTION OF WHICH AND CONTAINED IN THE APPLICATION AND EXHBRIS, A COPY OF WHICH IS HERELATIO ANNEXED AND MADE A PART HERBORY, AND THE VARICUS REQUESTIONS OF LAW IN SIGHT FAIRS MADE AND REVOLUTED HAVE REDUCTION TO FEEL, BY THE APPLICANTS, THILL THERETO IS PROM THE RESIDENCE OF THE PLANT VARIETY PROTECTION OF FEEL, BY THE APPLICANTS, INDICATED IN THE SAID COMY, AND WHEER AS GIVEN DUE CAMBRIAND NAME, THE SAID APPLICANTS, IS (ADS. ADECRACION ON INSTITUTION OF CONTROL CASE OF THE APPLICANTS, INDICATED IN THE SAID COMY, AND WHEER AS GIVEN ON THE SAID COMY, AND WHEER AS GIVEN ONE CAMBRIAND NAME, THE SAID APPLICANTS, IS (ADS. ADECRACION ON INSTITUTION OF CORPORACY OF THE SAID APPLICANTS OF THE SAID APPLICANTS, IS (ADS. ADECRACION ON INSTITUTION OF CORPORACY OF THE SAID APPLICANTS OF THE SAID APPLICANTS, IS (ADS. ADECRACION ON INSTITUTION OF CORPORACY OF THE SAID APPLICANTS OF THE SAID APPLICANTS.

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the year two thousand three

Gem Jelin Commissioner

Commissioner Plant Variety Protection Office Agricultural Marketing Scroice Secretary of

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Plant Variety Protection Office Telephone: (301)504-5518 FAX: (301)504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

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Exhibit C forms are available from the PVPO for areat crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

Optional obtitional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Lise comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habil, plant diseases relations, e.g., and as plant habil, plant diseases

Section 52(8) of the Act required applicants to furnish a statement of the besis of the applicant's ownership. An Exhibit E form is available from the PVPO.

E "Type" is specified (seed of date variety be dold by verlety name only, at a class of certified seed), the applicant may NOT reverse the efficient decision when the variety has been seed and so taboled, line decision published, or the certificial second. However, I"10" has been specified, replaced may change the orbitos. (Dee Registrobe and Places of Privacies, Section 7:103).

22 See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for alligibility require

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old conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213. Ing 305, Bataville Agricultural Resparch Canter-East, Bataville, MD 20705. Taleohorus: (DV1) 504-1608.

Exhibit A. Origin and Breeding History

Pedigree: PH24E/PHND1)PX43224X

Pioneer Line PH6ME, Zen mays L., a dent corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PH24E (Certificate No. 9500204) X PHTND1 (PVP Certificate No. 9500178) using the pedigree method of plant breeding. Variedes PH24E and PHD10 are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Selfing was practiced from the above bybrid for 7 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at York, Nebraska, as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been revaluated and subsequent generations of the line have been grown and hand-pollinated with locstravious again made for uniformity.

Variety PR6ME has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 5 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygousity and phenotypic subility. The line has been increased both by hand and in its included fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophortically using sound lab molecular market methodology.

No variant traits have been observed or are expected in PH6ME.

The criteria used in the selection of PH6ME were yield, both per se and in hybrid combinations; late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions, number of tillers, especially important in production because having numerous tillers increases hybrid production costs spent on detasseling; disease and insect resistance; pollen yield and tassel size.

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Aspendix A (cont.)

Example A: Developmental history for PH6ME

Season/Year Pedigree Grown	Inbreeding Level of Pedigree Grown
SUMMER/1994 PH24E, PHND1	FO
WINTER/1994 PH24E/PHND1	F1
SUMMER/1995 MH24E/PHND1)PX	F2
SUMMER/1996 PHZ4E/PHND1)PX4	
WINTER/1996 PH24B/PHND1)PX43	F3
SUMMER/1997 PH24E/PHND1)PX432	
WINTER/1997 PH24E/PHND1)PX4322	F5
SUMMER 1998 PH24E/PHND1)PX43224	F6
Seed: PH24E/PHND1)PX43224X	F7

*PH6ME was selfed and ear-rowed from F3 through F7 generation.

#Uniformity and stability were established from F6 through F8 generation and beyond when seed supplies were increased.

Emilit B. Novelty Statement

Variety PH6ME mostly resembles Pioneer Hi-Bred International, inc. proprietary inbred line PH24E 6VF Certificate No. 9600204). Tables IA and IB show two sample t-tests on data collected primarity in Johnston, Ankeny, and Dallas Center, IA. The traits collectively show measurable sfireness between the two varieties.

Variety PH6ME has a higher shank position score (3 vs 1) than PH24E (Shank position scores 1-3 where 1 *upright and 3 *udropping or pendulum position).

Variety PH6ME requires more GDU's from planting to 50% silk (SILK50%GDU) (1620 vs 1549) the PH24E (Table 1A, 1B).

Variety PH6ME requires more GDU's from planting to 10% pollen shed (SHED10%GDU) (1568 vs 1488) than PH24E (Table 1A, 1B).

Variety PH6ME requires more GDU's from planting to 50% pollen shed (SHED50%GDU) (1603 vs 1529) than PH24E (Table 1A, 1B)

Variety PH6ME requires more GDU's from planting to 90% pollen shed (SHED90%GDU) (1637 vs 1560) than PH24B (Table 1A, 1B).

Exhibit B Novelty Statement Tables

Table 1A: Data from Johnston, Ankey, and Dallas Center, IA broken out by year and across environments are supporting evidence for difference between PRGME and PHLAE. Each year varieties were grown in 3 locations that had different environmental conditions. Environments had different planting dates and were in different fields. A two-sample t-test was used to compare differences between means.

SHED TO KOO	5	Distance	Patrician												子 人工
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HEDS0%GDU	2002	PHBME	PH24E	67		8		78.3	94 970	45.00	24.00	74.563	4	6	0
HED90%GDU	2000	PHEME	PHOME			4677		100	27.000	41.130	7 7 7	12/21	4	2.9	0
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Table IB: Sammary data from Johaston, Ankary, and Dallas Center, IA across years and environments are supporting ord differences between Piffolk and PEFAG. Environments had different planting dates and were in different fields. A two-san used to compare differences between means.

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DEFINITIONS

In the description and examples, a number of terms are used herein. In order to provide a clear and consistent understanding of the specification and claims, including the scope to be given such terms, the following definitions are provided:

- ANT ROT = ANTHRACNOSE STALK ROT (Colletotrichum graminicola). A 1 to 9 visual rating indicating the resistance to Anthracnose Stalk Rot. A higher score indicates a higher resistance.
- BAR PLT BARREN PLANTS.
- The percent of plants per plot that were not barren (lack ears).
- BRT STK BRITTLE STALKS.
 - This is a measure of the stalk breakage near the time of pollination, and is an indication of whether a hybrid or inbred would snap or break near the time of flowering under severe winds. Data are presented as percentage of plants that did not snap.
- BUACR YIELD (BUSHELS/ACRE). Yield of the grain at harvest in bushels per acre adjusted to 15.5%
- CLD TST COLD TEST.
- The percent of plants that germinate under cold test conditions. CLN = CORN LETHAL NECROSIS.
 - Synergistic interaction of maize chlorotic mottle virus (MCMV) in combination with either maize dwarf mosaic virus (MDMV-A or MDMV-B) or wheat streak mosaic virus (WSMV). A 1 to 9 visual rating indicating the resistance to Corn
- Lethal Necrosis. A higher score indicates a higher resistance. COM RST COMMON RUST (Puccinia sorghi).
- A I to 9 visual rating indicating the resistance to Common Rust. A higher score indicates a higher resistance. DIP ERS DIPLODIA EAR MOLD SCORES (Diplodia maydis and Diplodia
- macrospora). A 1 to 9 visual rating indicating the resistance to Diplodia Ear Mold. A higher score indicates a higher resistance.
- DRP EAR DROPPED EARS. A measure of the number of dropped ears per plot and represents the percentage
- of plants that did not drop ears prior to harvest. EAR HT EAR HEIGHT. The ear height is a measure from the ground to the highest placed developed ear node attachment and is measured in cm.
- EAR MLD = GENERAL EAR MOLD. Visual rating (1-9 score) where a "I" is very susceptible and a "9" is very resistant. This is based on overall rating for ear mold of mature ears without determining the specific mold organism, and may not be predictive for a specific
- ear mold. EAR SZ = EAR SIZE
- A 1 to 9 visual rating of ear size. The higher the rating the larger the ear size. ECB II.F EUROPEAN CORN BORER FIRST GENERATION LEAF FEEDING (Ostrinia nubilalis).
- A 1 to 9 visual rating indicating the resistance to preflowering leaf feeding by first generation European Com Borer. A higher score indicates a higher resistance. ECB 2IT
- EUROPEAN CORN BORER SECOND GENERATION INCHES OF TUNNELING (Ostrinia nubilalis). Average inches of tunneling per plant in the stalk.
- ECB 2SC EUROPEAN CORN BORER SECOND GENERATION (Ostrinia nubilalis).

A 1 to 9 visual rating indicating post flowering degree of stalk breakage and other evidence of feeding by European Corn Borer, Second Generation. A higher score indicates a higher resistance.

ECB DPE EUROPEAN CORN BORER DROPPED EARS (Ostrinia mubilalis).

Dropped cars due to European Corn Borer. Percentage of plants that did not drop ears under second generation corn borer infestation.

EGRWTH - EARLY GROWTH.

This is the visual rating (1 to 9) of the amount of vegetative growth after emergence at the seedling stage (approximately five leaves). A higher score indicates better vigor or early season growth.

EST CNT - EARLY STAND COUNT.

This is a measure of the stand establishment in the spring and represents the number of plants that emerge on per plot basis for the inbred or hybrid.

EYE SPT = EYE SPOT (Kabatiella zeae or Aureobasidium zeae).

A 1 to 9 visual rating indicating the resistance to Eye Spot. A higher score

indicates a higher resistance.

FUS ERS = FUSARIUM EAR ROT SCORE, (Fusarium moniliforme or Fusarium

subglutinas).

A 1 to 9 visual rating indicating the resistance to Fusarium car rot. A higher score indicates a higher resistance.

GDU - GROWING DEGREE UNITS.

Using the Barger Heat Unit Theory, which assumes that maize growth occurs in the temperature range 50°F - 86°F and that temperatures outside this range slow down growth; the maximum daily heat unit accumulation is 36 and the minimum.

daily heat unit accumulation is 0. The seasonal accumulation of GDU is a major factor in determining maturity zones.

GDU SHD = GDU TO SHED.

The number of growing degree units (GDUs) or heat units required for an inbred line or hybrid to have approximately 50 percent of the plants hedding polition and is measured from the time of planting. Growing degree units are calculated by the Barger Method, where the heat units for a 24-hour period are:

GDU = (Max, Temp. + Min. temp.) - 50/2
The highest maximum temperature used is 86° F, and the lowest minimum temperature used is 50°F. For each inbred or hybrid it takes a certain number of GDUs to reach various stages of plant development.

GDU SLK - GDU TO SILK.

The number of growing degree units required for an inbred line or hybrid to have approximately 50 percent of the plants with silk emergence from time of planting. 'Growing degree units are calculated by the Barger Method as given in GDU SHD definition.

GIBERS = GIBERELLA EAR ROT (PINK MOLD) (Gibberella zeae).
A 1 to 9 visual rating indicating the resistance to Gibberella Ear Rot. A higher score indicates a higher resistance.
GLF SPT = GRAY LEAF SPCT (Grandes seeds a modifie)

GRAY LEAF SPOT (Cercospora zeae-maydis).
 A 1 to 9 visual rating indicating the resistance to Gray Leaf Spot. A higher score indicates a higher resistance.

GOS WILT — GOSS' WILT (Corynebacterium nebraskense).

A I to 9 visual rating indicating the resistance to Goss' Wilt. A higher score indicates a higher resistance.

GRN APP GRAIN APPEARANCE. This is a 1 to 9 rating for the general appearance of the shelled grain as it is harvested based on such factors as the color of harvested grain, any mold on the grain, and any cracked grain. High scores indicate good grain quality. HC BLT HELMINTHOSPORIUM CARBONUM LEAF BLIGHT (Helminthosporium carbonum). A 1 to 9 visual rating indicating the resistance to Helminthosporium infection. A higher score indicates a higher resistance. HD SMT HEAD SMUT (Sphacelotheca reiliana). This score indicates the percentage of plants not infected. KER KG KERNELS PER KILOGRAM. The number of kernels per 1 kilogram of seed after discard is removed. KSZ DCD KERNEL SIZE DISCARD. The percent of discard seed; calculated as the sum of discarded tip kernels and extra large kernels. MDM CPX = MAIZE DWARF MOSAIC COMPLEX (MDMV = Maize Dwarf Mosaic Virus and MCDV = Maize Chlorotic Dwarf Virus). A 1 to 9 visual rating indicating the resistance to Maize Dwarf Mosaic Complex. A higher score indicates a higher resistance. MST HARVEST MOISTURE. The moisture is the actual percentage moisture of the grain at harvest. NLF BLT NORTHERN LEAF BLIGHT (Helminthosportum turcicum or Exserohilum turcicum). A 1 to 9 visual rating indicating the resistance to Northern Leaf Blight. A higher score indicates a higher resistance. PLT HT PLANT HEIGHT. This is a measure of the height of the plant from the ground to the tip of the tassel in cm POL SC POLLEN SCORE. A 1 to 9 visual rating indicating the amount of pollen shed. The higher the score the more pollen shed. POL WT POLLEN WEIGHT. This is calculated by dry weight of tassels collected as shedding commences minus dry weight from similar tassels harvested after shedding is complete. PRM PREDICTED RELATIVE MATURITY. This trait, predicted relative maturity, is based on the harvest moisture of the grain. The relative maturity rating is based on a known set of checks and utilizes standard linear regression analyses and is also referred to as the Comparative Relative Maturity Rating System that is similar to the Minnesota Relative Maturity Rating System. PRM SHD PREDICTED RELATIVE MATURITY GDU TO SHED. A relative measure of the growing degree units (GDU) required to reach 50% pollen shed. Relative values are predicted values from the linear regression of observed GDU's on relative maturity of commercial checks. RT LDG ROOT LODGING. Root lodging is the percentage of plants that do not root lodge; plants that lean from the vertical axis at an approximately 30° angle or greater would be counted as root lodged. SCT GRN SCATTER GRAIN. A 1 to 9 visual rating indicating the amount of scatter grain (lack of pollination

or kernel abortion) on the ear. The higher the score the less scatter grain.

SEL IND SELECTION INDEX. 2001A0255 The selection index gives a single measure of the hybrid's worth based on

information for up to five traits. A maize breeder may utilize his or her own set of traits for the selection index. One of the traits that is almost always included is yield. When selection index data is presented, the tables represent the mean value averaged across testing stations.

SLF BLT SOUTHERN LEAF BLIGHT (Helminthosporium maydis or Bipolaris maydis). A 1 to 9 visual rating indicating the resistance to Southern Leaf Blight. A higher

score indicates a higher resistance. SOU RST SOUTHERN RUST (Puccinia polysora).

A 1 to 9 visual rating indicating the resistance to Southern Rust. A higher score

indicates a higher resistance.

STAGRN STAYGREEN. Staygreen is the measure of plant health near the time of black layer formation (physiological maturity). A high score indicates better late-season plant health.

STK CNT NUMBER OF PLANTS. This is the final stand or number of plants per plot.

STK LDG. = STALK LODGING.

This is the percentage of plants that did not stalk lodge (stalk breakage) as measured by either natural lodging or pushing the stalks and determining the percentage of plants that break below the ear.

STW WLT -STEWART'S WILT (Erwinia stewartif). A 1 to 9 visual rating indicating the resistance to Stewart's Wilt. A higher score

indicates a higher resistance. TASBRN TASSEL BRANCHES.

This is the number of primary tassel branches.

TASSZ - TASSEL SIZE.

A 1 to 9 visual rating was used to indicate the relative size of the tassel. The higher the rating the larger the tassel.

TAS WT TASSEL WEIGHT.

This is the average weight of a tassel (grams) just prior to pollen shed. TEX EAR EAR TEXTURE.

A 1 to 9 visual rating was used to indicate the relative hardness (smoothness of crown) of mature grain. A 1 would be very soft (extreme dent) while a 9 would be very hard (flinty or very smooth crown).

TILLER TILLERS.

A count of the number of tillers per plot that could possibly shed pollen was taken. Data are given as a percentage of tillers: number of tillers per plot divided by number of plants per plot.

TST WT TEST WEIGHT (UNADJUSTED).

The measure of the weight of the grain in pounds for a given volume (bushel). YLD SC

VIELD SCORE.

A 1 to 9 visual rating was used to give a relative rating for yield based on plot car piles. The higher the rating the greater visual yield appearance.

Exhibit C (Corn Maize)

Unned States Department of Agriculture, Agricultural Macketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Particular June 2002.

Objective Description of Variety Cont (Zee mays L.)

mu of Applicant (s) Sensor HI-Bred I	nternational, Inc.	Variety Scotl Source	Varie	ry Name or Temporary Designation PH6MB
Mess (Street & No., o	r RFD No., City, State, Zip Cod	and Country	POR OFFICIAL USE	
101 NW 62" Ave	nue, P.O. Box 85, 0131-8085	_	PVP0 Number	5.3
CONCHOICES (Use	ne variety description and must in conjunction with Munsell col		variety description. Trait	Right justify whole numbers by adding s designated by an '*' are considered
Jek Green Dark Green Very Dark Green Green-Yellow	07=Yellow 08=Yellow Orange 09=Salmon 10=Pink-Orange	11=Pink 12=Light Red 13=Cherry Red 14=Red 15=Red & White	16=Pate Purple 17=Perple 18=Coloriess 19=White 20=White Capped	21-Buff 22-Tan 23-Brown 24-Bronzo 25-Veriegated (Describe) 26-Other (Describe)
ANDARD INBRED C in the most similar (in low Date Families:	HOICES background and maturity) of the	se to make comparisons based or	grow-out trial data):	20 Gall (Denilos)
mily Members 4 CM105, A6.	32, B64, B68	Yellow Deat (Unrelated) Co109, ND246, Oh7, T232.	Sweet C	ovn: ovn5125, P39, 2132
37 B37, B76, H 73 N192, A679 103 Mo) 7, Va10	84 , B73, NC268 2, Vs35, A682	WII7, WI53R, WISBN	Popcom SG153	: 3, 472 2, H P 301, HP7211
43 A619, MS71	, H99, Va26 4, A654, Pa91	White Dent: C166, H105, Ky228	Pipeson Mo153	2: V, Mo16W, Mo24W

	cribe intermediate types in Comme				Stand	ard Verie	y Name
2 1=S	veet 2*Dent 3=Flint 4*Flour 5*	Pop 6=Ornamental				A619	
	HERE DEVELOPED IN THE U.S.				Stano	dard Seed	Source
2 1=No	thwest 2=Northcentral 3=Norther	est 4=Southeast 5=Sou	uticentral		-		
6=Soi	thwest 7=Other Control Com 8	elt. NW.NE.SW U.S.			1	AMES 19	206
3. MATURITY	(In Region of Bost Adaptability; sh	ow Heat Unit formula in	Comments' s	action)	1		-
DAYS HE					DAYS	HEAT UN	irs
976 1.44					071	1,300.3	
078 1.48					070	1,284.7	
004 0.00					004	0.096.3	
	From 50% silk to optimum					ALL SECTION AND ADDRESS OF THE PERSON AND AD	
	From 50% silk to hervest at	25% moisture					
4. PLANT.			Standard	Sample		Standard	Samo
***			Deviation	Size		Deviation	Size
	Plant Height (to tassel tip)		01,53	03	194.0	08,08	03
	Ear Height (to base of top ear nod	a)	06.03	93	047.7	08,51	03
	Length of Top Ear internode		99.31	03	015.5	00.61	23
	rage Number of Titlers		00.01	03	0.0	00.00	03
0.9 Ave	rage Number of Ears per Stalk		20.07	03	0.8	00.05	03
2 And	ocyanin of Brace Roots: 1=Abser	nt 2=Faint 3=Moderale	4=Dark 5=Ve	ry Dark	2		_
5. LEAF;			Standard	Sample		Standard	Sample
			Deviation	Size		Deviation	Size
	fidth of Ear Node Leaf		20.31	03	09.3	00.70	03
	angth of Ear Node Leaf		Q1.1Z	93	72.2	91.06	03
	ber of leaves above top ear		00.31	03	05	00.12	03
18 Degr	ees Loaf Angle (measure from 2nd thesis to stalk above leaf)	tes avods last	02.04	03	16	02.84	03
	Color (Munsell code)	5GY34			03	đGY	n.
1 Losf	Sheath Pubascance (Rate on scale	from 1=none to 9=like	peach fuzzt		2	252.1	7
Marg	nal Waves (Rats on scale from 1=	none to Bransovi	,,		•		
Longi	tudinal Creases (Rate on scale fro	m 1=none to 9=many)	*				
. TASSEL:			Standard	Sample	-	Signdard :	Sample
			Deviation	Size		Deviation	Size
	er of Primary Łateral Branches		03.00	03	11	03.00	03
	h Avigle from Central Spike		14.05	03	25	93.33	03
35 Branc		tassel ttp)	01.45	03	58.3	03.19	03
35 Brand 50,3 on Ta	assel Length (from top leaf collar to			-	Z		
35 Branc 50,3 on Ta 7 Police	Shed (rate on scale from 0=male)				
35 Brand 50,3 on Ta Z Police 97 Anthe	i Shed (rate on scale from 0#mple ir Color (Munsell code)	7.5Y8.58	•		QU	101	110
35 Branc 50.3 on Ta 7 Police 97 Anthe 11 Glum	i Shed (rate on scale from Owingle ir Color (Munsell code) e Color (Munsell code)	7.5Y8.58 10RP48	,			10Y8	
35 Branc 50.3 on Ta 7 Police 97 Anthe 11 Glum	i Shed (rate on scale from 0#mple ir Color (Munsell code)	7.5Y8.58 10RP48	•		QU		

۵	Daviation	Size	
3	12.3 01.15	93	
3	43.7 01.53	03	
Į	75.0 18.05	03	
ì	15.3 01.15	93	
	2		
	1		
l	97.7 91.53	03	
	2		
	Standard	Sample	
	Deviation	Size	
	10.3 00.58	03	14
	08.3 00.58	03	2
	94.7 99.58	63	
	58.7 00.35	93	5115 Mil
	1		0
	97 10YR		· ·
	07 10YB	Z12	
	3	'	

	nhusked Data):				1		
11 :	Silk Color (3 days after emergence) (Muns	sell code)		2.5R58	01	2.50	3484
Q3 (resh Husk Color (25 days after 50% silking	g) (Munsall code)		SGYSS	1 -	-	
21 (Dry Husk Color (65 days after 50% silking)	(Munsell code)		5Y92	01	-	Y75
3 F	ostion of Ear at Dry Husk Stage: 1= Uprig	ght 2* Horizontal 3* Pen	dant	2132	21	2.5	8.54
<u>6</u> H	lusk Tightness (Rate of Scale from 1=very	loose to 9=very tight;			3		
2 H	lusk Extension (at harvest): 1=Short (ears	exposed) 2=Medium (<8	om)		Z		
3	=Long (8-10 cm beyond our tip) 4=Very Lo	ong (>10 cm)			2		
7b. EAR (H	keked Ear Dota):	Star	ndard	Sample	Si	pridard	Sample
		Dev	iation	Size	1	viation	Size
17.0 a	m Ear Length		.00	03			
41.3 m	im Ear Diameter at mid-point	_	.58	03		01.15	93
	m Ear Weight		.72	_		01.53	03
16 N	umber of Kernel Rows	_	00	03		18.05	03
2 10	ernel Rows: 1=Indistinct 2=Distinct	21	-102	Wa.	i —	91.15	03
	ow Alignment: 1=Straight 2=Slightly Curve	d 3#Snirat			2		
	n Shank Length		1.53	-	1		
3 6	sr Tapor: 1=8light 2= Average 3=Extreme	¥	Lag	03	2	01.53	03
8. KERNEL (Dist.						
U. NEWWELL	Driota)	Stand		Sample	Stand		Sample
100 mm	Kernel Length	Devia		Size	Devis	Hon	Size
	r Kemel Width	90.5	20	03	10.3	00,58	03
		90.0	20	03	08.3	20.58	03
	Kemel Thickness	92.0	10	93	Q4.Z	0.58	03
	Round Kornels (Shape Grade)	06.0	10	03	58.7	08.35	03
	urone Color Pattern: 1-Homozygous 2=Se	gregating			1		
	erone Color (Munsell code)		10YR		QZ	10YR	814
	d Endosperm Color (Munsell code)		10YR	7h4	ᅇ	10YB	712
	losperm Type:				3		,
;	=Sweet (Su1) 2=Extra Sweet (sh2) 3=No =High Amylose Starch 5=Waxy Starch 6 [#High Lysine 8=Super Sweet (se) 9=High 0=Other	High Protein					
22.7 gm	Weight per 100 Kernels (unsized sample)	91.1	5	03	23.67. 0	1.53	93
9. CO8:		Standa	ard 5	ample	St	andard	Sample
		Deviat	ion	Size	-	vistion	Size
	Cob Diameter at mid-point	91.0		03	27.3		03

Page 2

PH6ME

ME	Application Variety Data	Page 3	Standard Variety Data	
DISEAS	OF DECISION -	1		
lance by	SE RESISTANCE (Rate from 1 (most	susceptible) to 9 (m	lost resistant);	
IOMYC U	name is not sessed; leave Race or Stra	in Options blank it pr	phygenic):	
A Le	af Blights, Wilts, and Local Infection	Diseases		
	Anthracnose Leaf Blight (Cole	dolrichum oraminico	in l	
	5 Common Rust (Puecinia sorgi	ni)	1	
	Common Smut (Ustilago may	dist	5	
	Eyespot (Kabatiella zese)			
	Goss's Will (Clavibacier michle	0000000 000 000		
	Gray Leaf Spot (Cercospora ze	periorise spp, neorge		
	Helminthosporium Leaf Spot (6	Madada - da da da	3	
	Northern Leaf Blight (Exserchii			
	Southern Leaf Blight (Bipolarie	territoricum) Na	2	
	Southern Rust (Puccinia polyso	maydis) Rece	- 4	
	Stewart's Wilt (Envine stewarti	NB)	1	
	Other (Specify)	•	4	
8. Sys	Ilomic Discusses		i	
	Corn Lethal Necrosis (MCMV a			
5	Head Smut (Sphacelotheca reli	na MUMVj	1	
-	Maize Chiorotic Dwarf Virus (MI	ans)	9	
	Maize Chlorotic Motile Virus (M	JV)		
3	Maize Owerf Mosaic Virus (MD)	CMV)		
-		MV)	3	
	Sorghum Downy Mildew of Con Other (Specify)	n (Peronoscierospor	n sorghi)	
C. Stall	Rois			
3	Anthracnose Statk Rot (Colletoir			
_	Diplodia Stalk Rot (Stenocorpella	ichum grammicola)	1 1	
	Fusarium Stalk Rot (Fusarium m	i mayous)	1	
	Gibberella Stalk Rot (Gibberella :	onwome)	1	
	Other (Specify)	reasi		
D. Ear s	nd Kemel Rots			
	Aspergitus Epr and Kemel Rot (A	Isocollus dossa)	1	
z	Diprodia Ear Rot (Stenocsrpella n	mounted (18765)		
Ž	Fusarium Ear and Kernel Rot (Fu	tarium monitéeses	1 2	
	Gibberelle Ear Rot (Gibberelle 26	an)	4	
	Other (Specify)			

590 =:-

HEME	Application Variety Data	Page 4	Standard Variety Data
11. INSECT R	ESISTANCE (Rate from 1 (mos	it auscapiible) to 9 (most resi	stant); (leave blank if not bested) :
	Banks grass Mile (Oligonyo		1
	Com Worm (Helicoverpa ze	al	
	Leaf Feeding		
	Silk Feeding		
	mg larval wt.		i
	Ear Damage		
	Corn Leaf Aphid (Rhopalasis	thum maidle)	1
	Corn Sap Beetle (Carpophile		1
	European Com Sorer (Ostrir	da outilatio	
6	1st Generation (Typically)	Wheel Last Faction	
4	2nd Generation (Typically	Leaf Sheath-Collar Feeding)	2
_	Stalk Tunneling	Coal Glicon-Colar Feeding)	2
	om tunneled/plant		
	Fall Armyworm (Spodoptera	facebase det	(
	Leaf Feeding	(ruqiperos)	l
	Silk Feeding		l .
	ma larval wt.		(
	Maize Weevil (Sitophilus zee	2	
	Aladhan Bashuam Mistal	maize	
	Northern Rootworm (Diabrosi	ca barberi)	i
	Southern Rootworm (Diabroti	ica undecimpunctata)	
	Southwastern Corn Borer (Oil Leaf Feeding	atresea grandiosella)	
	Stalk Tunneling		
			i .
	om funneled/plant		1
	Two-spotted Spider Milo (Tell	ranychus unicae)	
	Western Rootworm (Diabrotic	a virgifrea virgifere)	
	Other (Specify)		1
12. AGROP	NOMIC TRAITS:		
5	Staygreen (at 85 days after an	thesis) (Rate	3
	on a scale from 1=worst to ex-	cellent)	2
	% Dropped Ears (at 65 days a	filor anthesis)	
	% Pre-anthesis Britle Snappir	10	1
	% Pre-anthesis Root Lodging		
19.7	Post-anthesis Root Lodging (a	£ 55 days after authories	15.3
5,650.0	Kg/ha Yield of Inbred Per Se (at 12-13% orain moletum)	1,782.0
		Grown massaure)	1.792.0
13. MOLECU	LAR MARKERS: (0=deb) unave	sliable; 1=date available but r	ot supplied: 2-data supplied:
	1 isozymes		
	4	Q RFLP's	© RAPD's
IMENTS (eg. a was collected.	tate how heat units were calcula Continue in Exhibit D):	sted, standard inbred seed so	surce, and/or where
ication Variety I	Data Pag		Standard Variety Data

CLARIFICATION OF DATA IN EXHIBITS B AND C

street the data presented in Exhibit C, "Objective Description of Variety," are collected primarily at as and Ankeny, lows. The data in Exhibit B are from comparisons of inbride grown in the same tests in seed growing uses of PH6ME and in Johinston and Ankeny, I. The data in Tables I A and IB are from the present the property of the present the present of the present the present of the present

The data collected in exhibit C was collected in 2000 for page 1 and 2. There were 3 different planting dates planted for these trials. There are environmental factors that differ from planting date to planting date. Environmental temperature and precipitation differences during the vegetative and grain fill periods can impact plant and grain traits, and are a source of variability. The environmental conditions described above could result in larger standard deviations. The variation sections with environment to environmental conditions described above the deviations. The variation associated with environment to environment is normally higher than the variation associated within locations. I have enclosed a table that shows some of the temperature and precipitation values in

Exhibit D. Temperature and Precipitation differences from Ankeny, IA

TEMPERATURE

YEAR	MAY	JUN	JULY	AUG	AVERAGE
1994	59.8	70.7	71.9	69.0	67.9
1995	56.2	69.4	74.3	76.9	69.2
1996	56.2	69.3	71.3	70.5	66.8
1997	53.5	70.6	74.1	69.6	67.0
1998	64.7	66.6	74.8	73.5	69.9
1999	60.7	69.7	78.7	70.5	69.9
2000	63.5	68.9	73.2	74.2	70.0

RAINFALL

YEAR	MAY	JUN	JULY	AUG	Total
1994	3.67	5.75	1.71	4.18	15.31
1995	5.04	4.19	2.94	2.87	15.04
1996	8.47	4.35	2.51	2.14	17.47
1997	4.32	3.27	4.10	1.36	13.05
1998	6.46	11.07	5.70	4.98	28.19
1999	6.46	4.54	4.45	6.55	21.85
2000	5.40	5.80	3.16	1.78	16 14

US. DEPARTMENT OF ARRECTATIVE REPORTULATION MAKESTRUM BEHAVIOR EXHIBIT E EXHIBIT E EXHIBIT OF THE BASIS OF OWNERSHIP	The intrinsing sistemental are made in accordance with the Planary Act of 1994 (S. U.S. 635a) and the Papermoth Reduction Act (PRV) of 1995. Application is required in order to desarman it a plant variety proteocon certificate in to be issued (F. U.S.C. 2421), information in test contine-risal and cutofficial is abused (F. U.S.C. 2426).	
MEER HI-BRED INTERNATIONAL, INC.	TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME PH6ME
(Breat and No., or R.F.O. No., City, State, and ZIP, and Country)	5. TELEPHONE (molade area corie)	6. FAX photos area code)
MOI NW 62 nd AVENUE	515-270-4051	515-253-2125
MISTON, IA 50131-0085	7. PVPO NUMBER	
*** National Grant/Volume or company) a U.S. national or U.S. based company **The period Coccurry **The original owner? **YES NO liftms as	y? ØIYES ☐ NO	
b. If oliginal rights to variety were owned by a company(sea), ligars) is an 87 YES No. Of the pilve name of country agreements of commercial of ineated, use reverse for sadia appace). The country for partial for partia	riginal owner(s) a U.S. based company?	
REPORTS: The presention can be allforded only to covers (not locateds) who shoot our of the last plants to the variety are covered by the crisical bronder. One of the last plants to the variety are covered by the crisical bronder.		
the rights to the variety are owned by the original breeder, that person must be a 1 mile allows similar protections to estimate of the U.S. for the state genus and spec- tangent to the variety are owned by the company which employed the original will, or owned by assistant of a country which affords similar protections in the		
	men as one part for one warte fermy ever chapter	
the applicant is an owner who is not the original owner, both the original owner as	ed the applicant must meet one of the above cri	noria.
bredder/owner may be the individual or company who directed final breeding		
the in Paparent Reduction Act of 1965, no paraces are required to respond to a objection of info	errudon unless il displaye a votid QMB control number. T di la diverage 19 minutes per response, including the ter	he veid OMB control number for this or for marketing trees, colons, assentions
the tourse, general and maintaining the dam needed, and completing and rectaning the extension		
Education, generally and maintaining the data needed, and completing end reviewing the solution. Educations of Agriculture (UEDA) proletics discrimination in its programs on the basis of riscs, color before apply is all engagement. Particle with discribition who require elementer means for colorance and EDA (1997) or process and EDA.	r, national dright, sex, religion, ego, dispbility, political bet ecotion of program televation (brails, large or m. audia	ofs, and marker or farminal status (Net at
se en Paparant Reduction Acrd (1861, na promos an request in respect to acrescion of information creates in 1880 (1861, the teath required to Courtesia & subsequent production of the courtesia in many participation of the courtesia in the courtesia of the court	r, national drigim, sex, religion, ego, destelly, political bet ecotion of program teleconation (brails, large print, audio	efs, and marks or familial status (Nict at 404, Mil.) should contact USDA's TARGET